



THE

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MARYLAND SECTION
AMERICAN CHEMICAL SOCIETY

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MAY, 1978

NUMBER 5

Presented to

John Charles Polanyi

on the occasion of his

Remsen Memorial Lecture

sponsored by

*The Maryland Section of the American
Chemical Society*

in memory of

Ira Remsen

Teacher, Investigator, Author, Administrator

May 17, 1978

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The cooperation of these companies is greatly appreciated.

NOMINATING COMMITTEE SELECTED

The nominating committee for the 1979 officers, councilors, and executive committee members of the Maryland Section is soliciting nominations for the following positions in 1979: Chairperson-elect (who will become chairperson in 1980); secretary; treasurer; councilors (2); alternate councilors (2); and members-at-large (5). Candidates must be members of the Maryland Section and have expressed a willingness to serve if elected. Incumbents (other than chairperson-elect) are eligible for reelection.

For information, or to suggest candidates, call any member of the nominating committee. The committee consists of:

F. Timothy Parr, Chairman	765-2658; 765-4522
S. Edward Krikorian	528-7443
Robert Schneider	792-0161
Ernest Silversmith	444-3216
Linda Sweeting	321-3113

IF SPRING IS HERE, CAN FALL BE FAR BEHIND?

The program for the 1978-79 meeting year has been completed by Howard Cohen, the program chairman for the coming year. The first meeting will be held at the College of Notre Dame at 5:30 pm on September 27, 1978. Stanley Block, Chief of the Crystallography Section of the National Bureau of Standards will open the season. Dr. Block's outstanding work on materials at high pressures has been presented at several international forums.

The 8:30 speaker will be Albert C. Zettlemoyer of Lehigh University. His work in colloid and interface science and related fields has earned him numerous awards. In short, the September meeting will feature two outstanding scientists.

The complete program for the 1978-79 season will be printed in the September issue. The remaining meetings in 1978 will be held on October 18 at the W.R. Grace Research Center; and on November 15 and December 13, both at the College of Notre Dame. Mark these dates on your calendars now.



THE CHESAPEAKE CHEMIST

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H. R. Adams	Richard H. Smith
Merle Eiss	Alice Zeiger
Sr. Mary Vincent	

COMMITTEE CHAIRPEOPLE - 1978

Awards & National Nominations....
Joyce J. Kaufman
The Johns Hopkins University
338-7417

Chemical Education....Sr. Mary Vincent
The College of Notre Dame of
Maryland
435-0100

Program.....James Leslie
UMAB, Baltimore, MD 21201
528-7440

House.....Elwin C. Penski
CSL, APG-EA
671-3953

Member Assistance.....Joseph Cogliano
W. R. Grace & Co.
531-5711

Public Relations.....Carl Minnier
Essex Community College
682-6000, X 513

Membership.....Frances Hummel
Alcolac, Inc.
355-2600

Publicity.....Richard H. Smith
Western Maryland College
848-7000

Remsen Award.....Dean Robinson
The Johns Hopkins University
338-7430

Finance.....William Stahl
377-8022

BUSINESS MANAGER

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ALTERNATE COUNCILORS

Clara I. Adams	Patrick Callery
William Zeiger	Thomas Simmons

The Chesapeake Chemist is published monthly September through May by the Maryland Section of the American Chemical Society. Address editorial comments to Eli Freedman, 2411 Diana Road, Baltimore, Md. 21209. Send advertising copy and inquires to Kent R. Zeller, McCormick and Co., Inc., 204 Wight Avenue, Hunt Valley, Md. 21031. The Maryland Section is not responsible for opinions expressed herein. Editorials express the opinions only of their authors. The Editor is responsible for all unsigned material.

Minutes of the Executive Committee meeting of the Maryland Section of the American Chemical Society held on October 5, 1977 at the Knott Science Center, College of Notre Dame, Baltimore, Maryland. Present: A Bober, H. Cohen, M. Eiss, E. Freedman, F. Hummel, F. Gornick, D. Jones, J. Kaufman, R. Kassel, J. Leslie, M. Miller, C. Minnier, T. Parr, E. Penski, R. Schneider, E. Silversmith, T. Simmons, W. Stahl, Sr. Vincent, and A. Zeiger.

The meeting was called to order by the Chairman, Ernie Silversmith, at 8:15 p.m.

The minutes of the meeting of May 25, 1977 were read and approved.

Howard Cohen noted that the Section had \$9,589.39 in savings and \$163.30 in a checking account for a total of \$9,752.69 cash on hand. He also advised that a loan of \$500.00 had been made to the 12th MARM Committee.

Fred Gornick of the 12th MARM Committee distributed an operating committee list and the "Call For Papers" sheet. Questions and discussions then followed on varying the MARM feeding arrangements, need for contributions, student assistance, transportation, room accommodations at local college dorms and publicity. A more formal report on the MARM's progress is to be made at the next meeting.

Joyce Kaufman indicated that the "Awards and National Nominations" Committee had selected Dr. Henry Freimuth of Loyola College to be this year's recipient of the Maryland Chemist award and that he had accepted the award which will be presented on December 14, 1977. In addition the Executive Committee was asked to peruse the awards (of the ACS) to see if anyone in the Section would meet the requirements so that their names could be submitted before the March 1978 deadline.

A symposium on Safety in the Science Classroom and Laboratory to be sponsored jointly by the Maryland Academy of Sciences and the Maryland Section of the ACS and to be held at the Maryland Science Center, Baltimore, on October 14, 1977, was announced by Mel Miller of the Chemical Education (including Safety) Committee. Copies of the program were given to the committee.

Jim Leslie of the Program Committee reported that the dinner rate being charged by the caterers was being raised by \$.25 per dinner January 1, 1978; subsequently it was voted that as of the same date the charge to members for the monthly dinner would go from the current \$6.25/\$4.25 to \$6.50/\$4.50. It was also voted to disclose in the *The Chesapeake Chemist* the financial arrangements associated with the monthly dinners.

The House Committee's Ron Kassel asked to be relieved of his job as head of that committee and the request was granted.

Frances Hummel of the Membership Committee pointed out that ACS dues for 1978 would be \$42.00 for full membership, \$29.00 for a national affiliate membership, and \$7.00 for student membership. In a discussion that followed concern was expressed over whether the Section was receiving the rebates on new members to which it is entitled. It was decided that the Executive Committee would write (after motion) to the ACS Membership Division in the event these rebates were noticed to be either short in amount or not forthcoming. It was also suggested that a rider be attached to this letter noting the high percentage of errors in membership records from the membership division. J. Leslie then mentioned that he would be attending a chairman-elect meeting in Columbus, Ohio, in November and that the local section picks up the expenses of its representative at this function.

Ernie Silversmith speaking in behalf of Dave Roswell of the Publicity Committee advised that the publicity leaflets for the first meeting had been printed. He also remarked that the chairmanship of this committee had just passed from Dave Roswell to Dick Smith of Western Maryland College and that it would be appropriate to send a letter of thanks along with a memento to Ms. Margaret Daley who had carried out the typing associated with the Publicity Committee's activities over the past five years.

In behalf of Dean Robinson of the Remsen Award Committee, E. Silversmith pointed out that there had been no article in recent *C&EN* about this year's Remsen Award and that he would look into it. Mel Miller then advised that Loyola would handle the publicity for the Maryland Chemist Award while E. Silversmith would supply the pictures and write up to *C&EN*.

Bill Stahl of the Finance Committee distributed copies of the Maryland Section budget for fiscal year 1978 and then discussed the various entries. The problem of councilor support was again raised and after debate the Executive Committee voted unanimously to pay the remaining air fare of C. Minnier for his recent trip as Section Councilor to the National ACS meeting in Chicago in August. The Executive Committee also voted (15 for, 3 against) to pay C. Minnier an additional \$100.00 to help defray his other expenses at the same meeting. By a vote of 17 for to 1 against the Committee then passed a motion calling for the Section's Treasurer to rebate in full (upon submission of proper invoices) councilor's travel expenses after the councilor returns from a national meeting to which the councilor(s) traveled under ACS guide lines. It was then suggested that as a condition of this support, councilors promptly submit a report upon their return for publication in *The Chesapeake Chemist* of their activities and voting record while at the meeting. An Ad Hoc Committee consisting of D. Jones (Chairman), J. Kaufman, all councilors, T. Parr, and R. Kassel was then established to investigate and offer recommendations on the matter of the amount and type of assistance to provide the Section's councilors who attend the national meetings on behalf of the Section. A motion was

...continued on p. 5

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OCTOBER MINUTES ...concluded from p. 4

made and passed without dissent to provide Dave Roswell with the same reimbursement that C. Minnier received.

Student awards Ad Hoc Committeeman Carl Minnier discussed the committee's latest efforts in setting up a student awards program. Questions over eligibility, selection, type of award, location, and time of award, etc. are still under consideration.

Elwin Penski of the Ad Hoc Bylaws Revision Committee advised that the Committee had all but completed its task of revising the Section's Bylaws and that copies of the proposed revised Bylaws should be in the hands of the Executive Committee members by the time of their November meeting.

The Editor of *The Chesapeake Chemist* reported that with rising costs staring it in the face, *The Chesapeake Chemist* would be confronted with a budget problem this year or next. With upcoming Section elections, it was noted that the election ballot would appear in the November issue of *The Chesapeake Chemist* and that the coming year would be a good time to decide on a standard format and procedure for balloting by mail. Due to the 12th MARM being held in April the matter of publishing or not publishing an April issue of *The Chesapeake Chemist* was explored along with a number of possible alternatives. A decision remains to be made on this problem in the near future.

Under old business a motion was made to ban smoking during the business part of the monthly meetings but not during the cocktail hour or dinner. The motion was passed by a vote of 15 in favor to 1 not in favor. This was followed by another motion to ban smoking during dinner. This second motion was passed by a vote of 12 to 2.

Under new business a motion was made to approve a revised MARM operating manual that had already been approved by the MARM Executive Committee as well as the entire Steering Committee but which still required approval of a majority of participating local sections to be put into effect. The motion was passed by a unanimous vote.

The meeting was adjourned at 10:08 p.m.

Respectfully submitted,

Bob Schneider
Secretary

THE 33rd REMSEN LECTURER

THE 33rd REMSEN LECTURER

JOHN CHARLES POLANYI, FRSC, FRS

John Charles Polanyi received his schooling in England. He obtained his B.Sc., M.Sc. and Ph.D (1952) at the University of Manchester. Following this he was a postdoctoral fellow at the National Research Council of Canada from 1952 to 1954, and a Research Associate at Princeton University from 1954 to 1956. He moved to the University of Toronto in 1956, becoming a full Professor in 1962 and a University Professor in 1974.

Dr. Polanyi is noted for his contributions to understanding the detailed mechanisms of chemical reactions in terms of their potential energy surfaces. He was a pioneer in the use of trajectory calculations to explain the relations between potential energy surfaces and the states in which products of reactions are formed. He is responsible for developing what have become known as "arrested relaxation" techniques for measuring distributions of energy states of reaction products. His definitive infrared chemiluminescence experiments using these methods have become a point of reference for widespread theoretical and experimental efforts to define the dynamic constraints which limit and control the rate of chemical reactions.

Dr. Polanyi is a Fellow of the Royal Society of Canada, a Fellow of the Royal Society, and an Honorary Foreign Member of the American Academy of Arts & Sciences. His numerous awards include the Marlow Medal of the Faraday Society (1962), Centenary Medal and Lectureship, Chemical Society of Great Britain (1965), Steacie Prize for the Natural Sciences (shared with N. Bartlett) (1965), British Chemical Society Award (1971), Office of the Order of Canada (1974), Chemical Institute of Canada Medal (1976), Henry Marshall Tory Medal of the Royal Society of Canada (1977), plus numerous honorary lectureships, fellowships, and honorary degrees. He is the author of more than 100 papers in scientific journals, plus articles on science policy, articles on the control of armaments, and a film "Concepts in Reaction Dynamics" (1970).

Abstract of Professor Polanyi's Talk

MOLECULAR MOTIONS IN SIMPLE CHEMICAL REACTIONS

In recent years our knowledge of the molecular motions that take place in the course of the simplest chemical reactions has increased substantially. The study of infrared emission coming from chemical reactions constitutes one avenue by which such information has been obtained. This approach has been applied to the determination of reaction-product motions (vibration, rotation and translation) as well as to the effect of these same alternative types of excitation on the probability that a reaction will occur. Some implications of the findings for our understanding of reaction dynamics will be discussed as will future directions for experimentation and for practical application.



PROFESSOR J. C. POLANYI

DATE AND TIME:

Wednesday, May 17, 1978
8:30 pm

PLACE:

Remsen Hall, Room 101
Homewood Campus of
The Johns Hopkins University

SPEAKER:

Dr. JOHN C. POLANYI
University Professor,
University of Toronto

SUBJECT:

"Molecular Motions in
Simple Chemical Reactions"

COCKTAILS AND DINNER:

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SOCIAL HOUR:

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PARKING:

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It is not necessary to be a member of the American Chemical Society to attend either the dinner or the lecture. You are welcome to the lecture without going to the dinner.

Minutes of the Executive Committee meeting of the Maryland Section of the American Chemical Society held on November 30, 1977 at the Knott Science Center, College of Notre Dame, Baltimore, Maryland. Present: Yale Caplan, Howard J. Cohen, Merle Eiss, Frances Hummel, Ronald Kassel, James Leslie, Carl Minnier, Tim Parr, Elwin C. Penski, Bob Schneider, Ernie Silversmith, and Sister Vincent.

The meeting was called to order by the Chairman Ernie Silversmith at 8:20 P.M.

The minutes of the meeting of October 5, 1977 were read and approved.

Howard Cohen noted that the section had \$7,828.61 in savings and \$811.80 in a checking account. Receipts from the November '77 dinner meeting amounting to \$365.50 were to be deposited in the checking account on December 1, 1977 and would bring the Section's cash on hand to a total of \$9,005.91. The \$500.00 loan to the MARM remains outstanding.

R. Schneider reported that fifty valid ballots for the election of the Section's 1978 officers had been received and were then opened and counted on November 28, 1977 by Tellers Patrick S. Callery and S.E. Krikorian. The votes were distributed as follows:

Chairman - James Leslie	47 votes
Chairman Elect - Howard Cohen	47 votes
Secretary - Bob Schneider	48 votes
Treasurer - Ron Kassel	48 votes
Councilor - Ernie Silversmith	46 votes
Alternate Councilor - William Zeiger	47 votes

A motion was made and seconded and passed unanimously to execute the "Form of Authorization for Corporate Accounts" whereby the new Treasurer alone would be responsible for signing the Sections checks except in the case of disability in which case any one of the remaining officers could act in his behalf.

Sister Vincent who will become Chairwoman of the Chemical Education Committee in January '78 remarked on behalf of Mel Miller that the Symposium on Safety in the Science Classroom and Laboratory held at the Maryland Academy of Sciences in October had been a moderate success.

The Program Committees Jim Leslie indicated that the committee's function would, as of January '78, be handled by the new Chairman Elect Howard Cohen.

It was pointed out that Elwin Penski would chair the House Committee during 1978.

Carl Minnier of the Public Relations Committee indicated that he had submitted an article on Food Additives to the *Sunpapers* which was then published in the "Letters to the Editor" section. It was also noted that a *Sun* reporter would be on hand to cover the Maryland Chemist Award ceremony in December.

The Membership Committee's Frances Hummel observed that the Sections recruitment program for new ACS members had been disappointing but that a new effort would be made during '78 to improve its results.

E. Silversmith noted that an article on this years Remsen Award had finally appeared in *Chemical and Engineering News* about three weeks back. He also noted that this type of delay might be reduced considerably by submitting a write up on the award to *Chemical and Engineering News* as soon as possible after the event.

Carl Minnier of the Student Awards Committee recommended that the awards program, that had been developed, be given a try at the March '78 meeting. After some further discussion, it was moved, seconded and passed unanimously by the Executive Committee that Carl be authorized to draft and mail a letter to the area's colleges and community colleges announcing the student awards.

The *ad hoc* By-Laws Revision Committee Chairman Elwin Penski passed out copies of the proposed revised Section by-laws and asked for the Committees comments. In the discussion that followed, E. Silversmith introduced questions raised by Eli Freedman over whether the revised by-laws showed state that the Chairman of The Johns Hopkins University Chemistry Department is *ex officio* the chairman of the Remsen Award Committee; whether the Sections monthly publication should be known as *Chesapeake Chemist* or *The Chesapeake Chemist*; whether the Sections election ballot should be mailed separately or continue to be printed and disseminated in *The Chesapeake Chemist* and whether the associate editors of *The Chesapeake Chemist* should be invited to the Executive Committees meetings but not be allowed to vote. The Executive Committee decided to leave the Remsen Award Committee arrangements as is; continue to call the Section's monthly publication *The Chesapeake Chemist*, continue to disseminate the Section's election ballot in *The Chesapeake Chemist* and finally to leave Bylaw 5 Section 3 as it is in the proposed revised by-laws.

In addition, the question raised by Carl Minnier as to whether the ad hoc Student Awards Committee should now become a Standing Committee was not resolved. After noting for the record that all Executive Committee meetings are open to all members, the Committee unanimously passed the proposed revised by-laws with minor revisions. It then decided to publish in *The Chesapeake Chemist* the revised by-laws along with an explanation and a mail ballot. A statement is also to be included which will advise members that they can get a copy of the previous by-laws if desired.

...continued on p. 11



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Balance of 1978 Schedule

Cincinnati, OH: Apr. 24-25
 Chicago, IL: Apr. 26-27
 Birmingham, AL: May 8-9
 Memphis, TN: May 11-12
 Research Triangle, NC: May 22-23
 Washington, DC: May 24-25
 San Francisco, CA: June 12-13
 Houston, TX: June 14-15
 No. Jersey-New York: July 24-25
 Philadelphia, PA: July 26-27

CHAIRMAN'S MESSAGE

The 33rd Remsen Memorial Lecture concludes the 1977-1978 series of the Section's monthly dinner meetings. I invite you to attend the lecture and dinner to honor the recipient, John C. Polanyi, and the man for whom the award is named, Ira Remsen. This meeting, to be held at The Johns Hopkins University, is always a pleasant affair and you will have a delightful evening in addition to learning something about theoretical chemistry.

As program chairman for the 1977-1978 meetings, I sincerely thank everyone who assisted me in all aspects of organizing the meetings, the speakers, and those members and guests who supported the meetings by their presence. My successor as program chairman is Howard Cohen, who has arranged an excellent and varied program for next year; the details can be found elsewhere in this issue.

Have a pleasant summer.

James Leslie

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Return by May 10

The Committee on Awards of the Maryland Section is seeking nominations for the Maryland Chemist Award, which will be presented at the Section's meeting on December 13 at the College of Notre Dame.

Any member of the Maryland Section (except previous winners) is eligible for this award. Nominations along with supporting documentation and a suggested citation should be sent to the Chairwoman of the Awards Committee,

Joyce J. Kaufman
Department of Chemistry
The Johns Hopkins University
Baltimore, MD 21218

Nominations must be received by July 1, 1978, for this year's award.

NOVEMBER MINUTES ...concluded from p. 8

Merle Eiss advised that the MARM arrangements were moving along smoothly and that it appeared that possibly 300 to 400 papers would be presented. However, a need still exists for persons to handle the expected large registration.

The request by Kent Zeller for an appropriation of \$2,000.00 to cover the expenses of publishing *The Chesapeake Chemist* was handled by voting unanimously to grant authorization to issue up to \$2,000.00 after obtaining additional information from K. Zeller by the Chairman Ernie Silversmith.

Under old business it was decided by everyone voting in the affirmative that due to the MARM being held in April '78 that an April issue of *The Chesapeake Chemist* would not be published.

Under new business the ACS annual report forms were explored with the Committee by E. Silversmith as a prelude to writing and submitting the Sections annual report to the Executive Director of the ACS. It was announced that H.R. Adams and Alice Zeiger would be Members at Large during 1978 and that Elwin Penski would be Chairman of the House Committee and Sr. Mary Vincent, Chairwoman of the Education Committee. A decision was made to discontinue sending invitations to new members to attend a dinner meeting as a guest to the Section because of the poor response. There was unanimous agreement on Carl Minnier's motion that, space permitting, a map showing the location of the upcoming monthly meeting should be published in every issue of *The Chesapeake Chemist*. Ron Kassel's request as the 1978 Treasurer for permission to move the Section's money accounts to a bank(s) of his choice for the sake of convenience was approved by all.

A motion was made and approved by everyone with a great deal of sincerity that a vote of thanks on behalf of the Section be given to Ernie Silversmith for all the time, interest, and effort that he so generously expended on the Section's affairs while Chairman.

The meeting adjourned at 10:38 PM.

Respectfully submitted
Bob Schneider
Secretary

GOUCHER CHEMISTRY CLUB HONORS BELLE OTTO TALBOT

Belle Otto Talbot was the guest of honor and the featured speaker at the 51st annual banquet meeting of the Goucher Chemistry Club on April 12. The occasion was especially fitting since 1978 marks the 50th anniversary of her appointment to the Goucher faculty. Her talk was a pleasure from start to finish. The travails of moving and of teaching at two campuses were a prominent feature. But H. L. Mencken (who was much interested in chemistry at one time) would certainly have been delighted with her descriptions of Baltimore boarding houses and their proprietors in the late 20's. Dr. Talbot, who retired from Goucher in 1966, is a former Editor of *The Chesapeake Chemist*, and received the Maryland Chemist of the Year Award of the Maryland Section in 1966.

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University of Maryland

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